XP-002262882

P.D. [redacted]
P. 1-2

/1 - (C) FILE CAPLUS
N - 1999:421061 CAPLUS
N - 131:88624
I - Manufacture of fire-resistant silane-crosslinked polyolefins
N - Matsuda, Yutaka
A - Sumitomo Bakelite Co., Ltd., Japan
O - Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
T - Patent
A - Japanese
C - ICM C08L023/26
ICS C08F008/00;C08F8/42;C08J3/24;C08K3/22;C08K9/04
C - 37-6 (Plastics Manufacture and Processing)
AN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
N - JP11181188	A	19990706	JP 1997-356921	19971225
R - JP 1997-356921		19971225		

B - The polyolefins are manufd. by (1) mixing (i) polyolefin compns. contg. .alpha.-olefin (co)polymers of d. .ltoreq.0.92 g/cm3 100, flame retardan 50-200, water absorbents 0.5-10, heavy metal deactivator 0.01-5 parts, a silanol condensation catalysts with (ii) H2O-free carrier polymers contg RR'SiY2 (R = olefinically unsatd. hydrocarbyl; Y = hydrolyzable org. group; R' = Y, hydrocarbyl other than aliph. unsatd. hydrocarbyl) and fr radical generators, at the temp. higher than the m.p. of the .alpha.-olefin polymers and (2) crosslinking by treating with H2O. Thus 98 parts polyolefin compn. comprising Softrex D 9052 (ethylene-.alpha.-olefin copolymer) 100, oleic acid-treated Kisuma 5B [Mg(OH)2] 120, stear acid-treated slaked lime 5, ADK Stab CDA 1 (heavy metal deactivator) 2, dibutyltin dilaurate 0.09, Irganox 1010 (antioxidant) 2, and Sanwax 171P (lubricant) 0.5 part was mixed with 2 parts carrier polymer compn. comprising ethylene-Et acrylate copolymer 95, hydrogenated styrene-isoprene block copolymer 5, vinyltrimethoxysilane 45, and dicumy peroxide 2.16 parts, extruded, and soaked in hot water to give a tape showing good appearance, O index 31, gel fraction 77%, tensile strength MPa, elongation 330%, good hot setting, and no discoloration by Cu wire.

T - fire resistant silane crosslinked polyolefin manuf; unsatd silane carrie polymer crosslinking polyolefin; ethylene olefin copolymer vinyltrimethoxysilane crosslinking

T - Isoprene-styrene rubber
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(hydrogenated, block, carrier polymer for silanes; prepn. of fire-resistant silane-crosslinked polyolefins)

T - Polysiloxanes, preparation
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(polyolefin-; prepn. of fire-resistant silane-crosslinked polyolefins)

T - Crosslinking
Fire-resistant materials
Fireproofing agents
(prepn. of fire-resistant silane-crosslinked polyolefins)

T - Polyolefins
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(prepn. of fire-resistant silane-crosslinked polyolefins)

T - 9010-86-0, Ethyl acrylate-ethylene copolymer 25101-13-7, Ethylene-meth methacrylate copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

9 claims 1, 2, 3, 4

(carrier polyme[redacted]or silanes; prepn. of fire[redacted]sistant silane-crosslin[redacted] polyolefins)

T - 1309-42-8, Kisuma 5B
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(flame retardant; prepn. of fire-resistant silane-crosslinked polyolefins)

T - 36411-52-6, ADK Stab CDA 1
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(heavy metal deactivator; prepn. of fire-resistant silane-crosslinked polyolefins)

T - 25038-32-8
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(isoprene-styrene rubber, hydrogenated, block, carrier polymer for silanes; prepn. of fire-resistant silane-crosslinked polyolefins)

T - 63411-54-1P, Ethylene-propylene-vinyltrimethoxysilane copolymer
85178-03-6P, 1-Butene-ethylene-vinyltrimethoxysilane copolymer
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(prepn. of fire-resistant silane-crosslinked polyolefins)

T - 1305-62-0, Slaked lime, properties
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(water absorbent; prepn. of fire-resistant silane-crosslinked polyolefins)